

**COATED STENT WITH GEOMETRY DETERMINATED FUNCTIONALITY AND
METHOD OF MAKING THE SAME**

ABSTRACT OF THE DISCLOSURE

5 The present invention, in an exemplary embodiment, provides a
stent, which combines many of the excellent characteristics of both
silicone and metal stents while eliminating the undesirable ones. In
particular, a principal objective in accordance with the present
invention is to provide a family of stents where the relative
10 hardness/softness of regions of the stent can differ from other regions
of the stent to provide additional patient comfort and resistance to
compression forces. Exemplary embodiments provide a stent that is
coated in a manner that limits the amount of coating surface area
that is in direct contact with the target lumen. In particular, a
15 covered stent is provided that is coated internally such that the outer
scaffolding surface of the stent is raised from the outer surface of the
coating. To this end, cilia function is only partially limited and
mucociliary clearance is not significantly affected. Moreover, the
coating itself has anti-adherent properties such that bacteria, fungi or
20 other microbials cannot colonize the cover in particular and the stent
generally.